

# Linear regulated power supply PSGK12



Acc. to 

- Output separated according to VDE 0551
- Extra low safety potential PELV (EN 60204), SELV (EN 60950)
- Protected against pol-permutation at the output
- Overload- and open circuit protected
- Short circuit proof
- Parallel connection possible
- Suitable for the tropics - Epoxy resin casted
- Operating status shown by LED
- Safety acc. to VDE, EN, UL, CSA



## Technical data

General data	
Product domination	linear regulated power supply
Type	PSGK12
FEAS order number	58012
Productfunction	DC power supply
Installation altitude	unlimited
State indicator	LED green
Overload indicator	LED red
Input data	
Input voltage	115V <sub>AC</sub> / 230V <sub>AC</sub>
Frequency	45 - 66Hz
Input voltage tolerance	-15% to +15%
Input current	max. 330mA (at 115V <sub>AC</sub> ), 165mA (at 230V <sub>AC</sub> )
Consumption	max. 38VA
Output data	
Output voltage U <sub>Nominal</sub>	12.0V <sub>DC</sub>
Range of adjustment	± 5% U <sub>Nominal</sub>
Output current I <sub>Nominal</sub>	1.4A
Power	17W
Current limiting	1.1 x I <sub>Nominal</sub>
Residual ripple (100Hz)	< 2mV
Control data	
Control deviation (load)	< 200mV with load variation 10% ..... 90%
Control deviation (supply)	< 10mV with supply variation ±10%
Control time	< 10ms with load variation 10% ..... 90%
Operating data	
Duty cycle	100% (continuous duty)
Operating temperature range	-30°C to +80°C
Storage temperature range	-30°C to 105°C
Efficiency	42%
Derating	from 40°C
Cooling	selfcooling recommended respective distance 15mm each
Safety devices	
Fuse recommended for input	at 115V <sub>AC</sub> 0.5A, delayed / at 230V <sub>AC</sub> 0.25A, delayed
Output fuse	not necessary - short circuit proof
Overload protection	integrated into device
Hold-up time	20 ms typ.
MTBF	> 380,000h
Safety data	
Test voltage transformer	5kV <sub>DC</sub> according to VDE0551
High voltage resistance	Input/Output 3.75kV <sub>AC</sub> acc. to VDE0806/IEC380
Degree of EMI suppression	in acc. to VDE0871B and EN55022/B
Protection class	Class 2 (EN60950)
Extra low safety potential	PELV (EN60204), SELV (EN60950)
Ambient humidity	95% rel. humidity, yearly average dewing allowed - for use in tropical ambient
Protective class enclosure	IP65
Protective class terminals	IP20 (VGB4)
Vibration proof	>30g at 33Hz in X, Y and Z acc. to IEC68 and DIN41640
Applied construction regulations	
VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0160/W2, VDE0806
IEC	IEC380, IEC60068-2-3, IEC60068-2-11-52, IEC60529, IEC60950, IEC61000-6-1-2-3-4
EN	EN45501, EN50021m EN50081-1, EN50081-2, EN50082-1, EN50178, EN50204, EN55011, EN55022, EN60068-1, EN60068-2-1-2-3-6-27-30, EN60204, EN60529, EN60950, EN61000-3-3, EN61000-4-2-3-4-5-6-8-11, EN61000-6-1-2-3-4, EN61558-2-17
CSA/UL	CSA-C 22.2 / UI60950, UI508, UL1950
Mechanics	
Mounting	On rails according to DIN46277 or wall mounting with screws
Dimensions (W x H x D)	55.0mm x 75.0mm x 110.0mm
Weight	approx. 0.8kg



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